

iscN-Channel MOSFET Transistor

TK5A65W, ITK5A65W

FEATURES

- Low drain-source on-resistance: $RDS(ON) = 1.2\Omega$ (typ.)
- Enhancement mode: Vth = 2.5 to 3.5V (VDS = 10 V, ID=0.17mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Switching Voltage Regulators

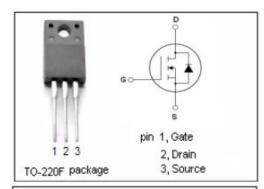


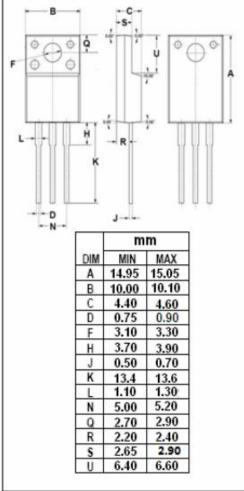
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

ABOOLOTE MAXIMOM NATINGO(18-23 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	650	V				
V _{GS}	Gate-Source Voltage	±30	V				
ID	Drain Current-Continuous	5.2	Α				
I _{DM}	Drain Current-Single Pulsed	20.8	А				
P _D	Total Dissipation @Tc=25°C	30	W				
Tj	Max. Operating Junction Temperature 150		$^{\circ}$				
T _{stg}	Storage Temperature	-55~150	$^{\circ}$				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°C/W
Rth(ch-a)	th(ch-a) Channel-to-ambient thermal resistance		°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.17mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2.6A			1.2	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{DR} =5.2A, V _{GS} = 0 V			1.7	V

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